

Claims

1. Display apparatus for vehicles characterized by having a display device that emits display light, a reflecting member for reflecting the display light, driving means for angularly moving the reflecting member, and control means for angularly moving the reflecting member to a middle position of a predetermined angle range when an ignition switch is turned off.

2. The display apparatus for vehicles according to claim 1 characterized by having a memory part for memorizing an angular position of the reflecting member and memory operating means for making the angular position be memorized in the memory part.

3. The display apparatus for vehicles according to claim 2 characterized in that when the ignition switch is turned on, the reflecting member is angularly moved to the angular position memorized in the memory part.

4. The display apparatus for vehicles according to claim 1 characterized by having a first operation switch for angularly moving the reflecting member upward and a second operation switch for angularly moving the reflecting member downward.

5. The display apparatus for vehicles according to claim 1 characterized by having detecting means for detecting the middle position of the reflecting member.

6. Display apparatus for vehicles having a display device that emits display light, a reflecting member for reflecting

the display light, and driving means for angularly moving the reflecting member in a predetermined angle range characterized in that a middle position of the angle range is an origin position.

7. The display apparatus for vehicles according to claim 6 characterized by having control means for angularly moving the reflecting member to the origin position when an ignition switch is turned on.

8. The display apparatus for vehicles according to claim 6 characterized in that a memory part for memorizing an angular position of the reflecting member and memory operating means for making the angular position be memorized in the memory part are provided.

9. The display apparatus for vehicles according to claim 8 characterized in that when the ignition switch is turned on, the reflecting member is angularly moved to the origin position, and then the reflecting member is angularly moved to the angular position memorized in the memory part.

10. The display apparatus for vehicles according to claim 6 characterized in that the driving means has a stepping motor.

11. The display apparatus for vehicles according to claim 10 characterized in that when the ignition switch is turned on, even if the stepping motor outputs the number of steps in correspondence with the movable range and thus the reflecting member is angularly moved to one of an upside and a downside, if the detecting means does not detect that the reflecting member

positions near the origin position, the control means angularly moves the reflecting member to the other of the upside and the downside, thereby the reflecting member is returned to the origin position.